

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/905,247A
Source: IFW/6
Date Processed by STIC: 3/22/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/09/905,247A

TIME: 11:17:07

Input Set : A:\00384103.txt

Output Set: N:\CRF4\03222005\I905247A.raw

```

3 <110> APPLICANT: Ke, Yi-Bao
4     Nie, Hui-Ling
6 <120> TITLE OF INVENTION: MUTANT TRICHOSANTHIN
8 <130> FILE REFERENCE: 04399/000J615-US0
10 <140> CURRENT APPLICATION NUMBER: 09/905,247A
11 <141> CURRENT FILING DATE: 2001-07-13
13 <160> NUMBER OF SEQ ID NOS: 8
15 <170> SOFTWARE: PatentIn version 3.2
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 289
19 <212> TYPE: PRT
20 <213> ORGANISM: Trichosanthes Kirilowii M.
22 <400> SEQUENCE: 1
24 Met Ile Arg Phe Leu Val Leu Ser Leu Leu Ile Leu Thr Leu Phe Leu
25 1             5             10             15
28 Thr Thr Pro Ala Val Glu Gly Asp Val Ser Phe Arg Leu Ser Gly Ala
29             20             25             30
32 Thr Ser Ser Ser Tyr Gly Val Phe Ile Ser Asn Leu Arg Lys Ala Leu
33             35             40             45
36 Pro Asn Glu Arg Lys Leu Tyr Asp Ile Pro Leu Leu Arg Ser Ser Leu
37             50             55             60
40 Pro Gly Ser Gln Arg Tyr Ala Leu Ile His Leu Thr Asn Tyr Ala Asp
41 65             70             75             80
44 Glu Thr Ile Ser Val Ala Ile Asp Val Thr Asn Val Tyr Ile Met Gly
45             85             90             95
48 Tyr Arg Ala Gly Asp Thr Ser Tyr Phe Phe Asn Glu Ala Ser Ala Thr
49             100            105            110
52 Glu Ala Ala Lys Tyr Val Phe Lys Asp Ala Met Arg Lys Val Thr Leu
53             115            120            125
56 Pro Tyr Ser Gly Asn Tyr Glu Arg Leu Gln Thr Ala Ala Gly Lys Ile
57             130            135            140
60 Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr
61 145            150            155            160
64 Thr Leu Phe Tyr Tyr Asn Ala Asn Ser Ala Ala Ser Ala Leu Met Val
65             165            170            175
68 Leu Ile Gln Ser Thr Ser Glu Ala Ala Arg Tyr Lys Phe Ile Glu Gln
69             180            185            190
72 Gln Ile Gly Lys Arg Val Asp Lys Thr Phe Leu Pro Ser Leu Ala Ile
73             195            200            205
76 Ile Ser Leu Glu Asn Ser Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile
77             210            215            220
80 Ala Ser Thr Asn Asn Gly Gln Phe Glu Ser Pro Val Val Leu Ile Asn
81 225            230            235            240

```

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/09/905,247A

TIME: 11:17:07

Input Set : A:\00384103.txt

Output Set: N:\CRF4\03222005\I905247A.raw

```

84 Ala Gln Asn Gln Arg Val Thr Ile Thr Asn Val Asp Ala Gly Val Val
85                245                250                255
88 Thr Ser Asn Ile Ala Leu Leu Leu Asn Arg Asn Asn Met Ala Ala Met
89                260                265                270
92 Asp Asp Asp Val Pro Met Thr Gln Ser Phe Gly Cys Gly Ser Tyr Ala
93                275                280                285
96 Leu
100 <210> SEQ ID NO: 2
101 <211> LENGTH: 870
102 <212> TYPE: DNA
103 <213> ORGANISM: Trichosanthes Kirilowii M.
105 <400> SEQUENCE: 2
106 atgatcagat tcttagacct ctctttgcta attctcacc cttctcctaac aactcctgct      60
108 gtggaggggcg atgttagctt ccgtttatca ggtgcaacaa gcagttccta tggagttttc      120
110 atttcaaatc tgagaaaagc tcttccaaat gaaaggaaac tgtacgatat ccctctgtta      180
112 cgttccagtc ttccagggtc tcaacgctac gcattgatcc atctcacaaa ttacgccgat      240
114 gaaaccatctt cagtggccat agacgtaacg aacgtctata ttatgggata tcgcgctggc      300
116 gatacatcct attttttcaa cgaggcttct gcaacagaag ctgcaaaaata tgtattcaaa      360
118 gacgctatgc gaaaagttag gcttccatat tctggcaatt acgaaaaggc tcaaaactgc      420
120 gcaggcaaaa taagggaata tattccgctt ggactccctg ctttggacag tgccattacc      480
122 actttgtttt actacaacgc caattctgct gcgtcggcac ttattgtact cattcagtcg      540
124 acgtctgagg ctgagaggta taaatttatt gagcaacaaa ttgggaagcg tgttgacaaa      600
126 accttcctac caagtttagc aattataagt ttggaaaata gttgggtctgc tctctccaag      660
128 caaattcaga tagcgagtac taataatgga cagtttgaaa gtccctgttg gcttataaat      720
130 gctcaaaacc aacgagtcac gataaccaat gttgatgctg gagttgtaac ctccaacatc      780
132 gcgttgctgc tgaatagaaa caatatggca gccatggatg acgatgttcc tatgacacag      840
134 agctttggat gtggaagtta tgctatttag      870
137 <210> SEQ ID NO: 3
138 <211> LENGTH: 21
139 <212> TYPE: DNA
140 <213> ORGANISM: artificial
142 <220> FEATURE:
143 <223> OTHER INFORMATION: primer
145 <400> SEQUENCE: 3
146 gtgcaggcca tggatgtag g      21
149 <210> SEQ ID NO: 4
150 <211> LENGTH: 30
151 <212> TYPE: DNA
152 <213> ORGANISM: artificial
154 <220> FEATURE:
155 <223> OTHER INFORMATION: primer
157 <400> SEQUENCE: 4
158 aacaatatgg cataggatcc catggatgac      30
161 <210> SEQ ID NO: 5
162 <211> LENGTH: 27
163 <212> TYPE: DNA
164 <213> ORGANISM: artificial
166 <220> FEATURE:
167 <223> OTHER INFORMATION: primer

```

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/09/905,247A

TIME: 11:17:07

Input Set : A:\00384103.txt

Output Set: N:\CRF4\03222005\I905247A.raw

```

169 <400> SEQUENCE: 5
170 aagcgtgttg acgaaacctt cctacca
173 <210> SEQ ID NO: 6
174 <211> LENGTH: 27
175 <212> TYPE: DNA
176 <213> ORGANISM: artificial
178 <220> FEATURE:
179 <223> OTHER INFORMATION: primer
181 <400> SEQUENCE: 6
182 attcagatag cgggtactaa taatgga
185 <210> SEQ ID NO: 7
186 <211> LENGTH: 27
187 <212> TYPE: DNA
188 <213> ORGANISM: artificial
190 <220> FEATURE:
191 <223> OTHER INFORMATION: primer
193 <400> SEQUENCE: 7
194 gttgtaacct ccggcatcgc gttgctg
197 <210> SEQ ID NO: 8
198 <211> LENGTH: 247
199 <212> TYPE: PRT
200 <213> ORGANISM: Trichosanthes Kirilowii M.
202 <400> SEQUENCE: 8
204 Asp Val Ser Phe Arg Leu Ser Gly Ala Thr Ser Ser Ser Tyr Gly Val
205 1 5 10 15
208 Phe Ile Ser Asn Leu Arg Lys Ala Leu Pro Asn Glu Arg Lys Leu Tyr
209 20 25 30
212 Asp Ile Pro Leu Leu Arg Ser Ser Leu Pro Gly Ser Gln Arg Tyr Ala
213 35 40 45
216 Leu Ile His Leu Thr Asn Tyr Ala Asp Glu Thr Ile Ser Val Ala Ile
217 50 55 60
220 Asp Val Thr Asn Val Tyr Ile Met Gly Tyr Arg Ala Gly Asp Thr Ser
221 65 70 75 80
224 Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala Lys Tyr Val Phe
225 85 90 95
228 Lys Asp Ala Met Arg Lys Val Thr Leu Pro Tyr Ser Gly Asn Tyr Glu
229 100 105 110
232 Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly
233 115 120 125
236 Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Phe Tyr Tyr Asn Ala
237 130 135 140
240 Asn Ser Ala Ala Ser Ala Leu Met Val Leu Ile Gln Ser Thr Ser Glu
241 145 150 155 160
244 Ala Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp
245 165 170 175
248 Lys Thr Phe Leu Pro Ser Leu Ala Ile Ile Ser Leu Glu Asn Ser Trp
249 180 185 190
252 Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln
253 195 200 205

```

RAW SEQUENCE LISTING

DATE: 03/22/2005

PATENT APPLICATION: US/09/905,247A

TIME: 11:17:07

Input Set : A:\00384103.txt

Output Set: N:\CRF4\03222005\I905247A.raw

```
256 Phe Glu Ser Pro Val Val Leu Ile Asn Ala Gln Asn Gln Arg Val Thr
257      210              215              220
260 Ile Thr Asn Val Asp Ala Gly Val Val Thr Ser Asn Ile Ala Leu Leu
261 225              230              235              240
264 Leu Asn Arg Asn Asn Met Ala
265              245
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/22/2005
PATENT APPLICATION: US/09/905,247A TIME: 11:17:08

Input Set : A:\00384103.txt
Output Set: N:\CRF4\03222005\I905247A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7

VERIFICATION SUMMARY

DATE: 03/22/2005

PATENT APPLICATION: US/09/905,247A

TIME: 11:17:08

Input Set : A:\00384103.txt

Output Set: N:\CRF4\03222005\I905247A.raw